# TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

101 Iron ores
102 Copper ores
103 Lead and zinc ores
104 Gold and silver ores
105 Bauxite
106 Ferroalloy ores
108 Metal mining services
107 Miscellaneous metal ores
108 Anthracite
110 Anthracite mining services
120 Bituminous coal and lignite
120 Coal mining services
109 Crude petroleum and natural gas
110 Natural gas liquids
138 Oil and gas field services
141 Dimension stone
141M Dimension stone in manufactures
142 Crushed and broken stone
142M Crushed and broken stone in manufactures
144 Sand and gravel
144M Sand and gravel in manufactures
145 Clay and related minerals
145M Clay and related minerals in manufactures
147 Chemical and fertilizer minerals
148 Nonmetallic minerals services
149 Miscellaneous minerals, n.e.c.
149M Miscellaneous minerals, n.e.c., in manufactures

| State, county, and size class | All mineral operations: Total | All mineral operations: Classified in mineral industries | All mineral operations: Included in manufacturing | Number of operations by industry group (See headnote for titles): 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 712 | 691 | 51 | 23 | 7 | - | - | - | - | 2 | - | - | - | - | - | 209 | 61 | 769 | 422 | 42 | 4421 | a | 2844 | 24 | | 13 | 21 | 2 | 3 | 21 |
| | 167 | 163 | 1 | | | | | | | | | | | | | 84 | 11 | 31 | 2 | 1 | 14 | | 39 | 3 | | 1 | | | 1 | 1 |
| | 318 | 286 | 30 | 1 | 1 | | | | | | | | | | | 76 | 13 | 20 | | | 1 | | 146 | 16 | 1 | 3 | | | 2 | 1 |
| | 111 | 106 | 5 | 1 | 1 | | | | | 1 | | | | | | 23 | | 11 | | | 2 | | 55 | 2 | | 1 | | | 3 | 1 |
| | 63 | 56 | 7 | 1 | 2 | | | | | 1 | | | | | | 11 | | 4 | | | 2 | | 26 | 1 | | | | | 2 | 2 |
| | 411 | 39 | 5 | 2 | 2 | - | - | - | - | | - | : | - | - | : | 12 | | | | | | 3 | 14 | 2 | | | | | 3 | 2 |
| | 10 | 10 | | 2 | 2 | | | | | | | | | | | 2 | | | | | | | 2 | 2 | | | | | 2 | 2 |
| | 16 | 16 | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | 3 | 3 |
| 100 TO 249 EMPLOYEES | 11 | 11 | | 8 | 7 | | | | | | | | - | - | - | 1 | | - | - | - | 2 | - | | | | | | | | |
| | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 EMPLOYEES AND OVER | 1 | 1 | - | - | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | | | | | | | | | | | | | | | | | | | | - | 1 | | | | | | | |
| | 31 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | 27 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 15 | 2 | 1 | | | | | | | | | | | | 16 | - | 1 | | | | | 5 | 2 | - | 1 | - | - | | |
| | 1 | 24 | 1 | 1 | | | | | | | | | | | | 15 | | 1 | | | | | 4 | 1 | | 1 | | | | |
| | 2 | 21 | 3 | 1 | | | | | | | | | | | | 1 | | 4 | | | 3 | ; | 4 | 1 | | | | | | |
| | 2 | 11 | 2 | | | | | | | | | | | | | | | | | | | 1 | 4 | 1 | | | | | | |
| 20 | 11 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 17 | 2 | 2 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| | 1 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARENAC COUNTY | | e | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 17 | 7 | | | | | | | | | | | | | | - | 17 | - | 5 | | | | | | | | | | | TM |
| BARAGA COUNTY TOTAL | 17 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 11 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 7 | 1 | | | | | | | | | | | - | | 3 | - | | | | 1 | | 3 | | | | | | - | |
| | 1 | 1 | | | | | | | | | | | | | | 3 | | | | | | | 3 | | | | | | | |
| BAY COUNTY TOTAL | 36 | 1 | 1 | - | - | - | - | -1 | | - | - | - | - | | - | 11 | | | | | | | 2 | | | | | | | |
| | 36 | 1 | 1 | | | | | | | | | | | | | 11 | | | | | | | 2 | | | | | | | |
| | 7 | 2 | | | | | | | | | | | | | | | | 2 | | | | | 2 | | | | | | | |
| | 2 | 2 | | | | | | | | | | | | | | | | 2 | | | | | 7 | | | | | | | |
| BERRIEN COUNTY TOTAL | 7 | 2 | 1 | | | | | | | | | - | - | - | - | | | 3 | | | | | 3 | | | | | | | |
| | 1 | 1 | 1 | | | | | | | | | | | | | | | 1 | | | | | 2 | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | | | | | | | | | | | | | | | | 1 | | | | | 1 | | | | | | | |
| | 3 | 1 | | | | | | | | | | | | | | | | 1 | | | | | 3 | | | | | | | |
| | 21 | 21 | | | | | | | | | | | | | | | | 1 | | | | | 3 | | | | | | | |
| 0-19 EMPLOYEES | 3 | 3 | | | | | | | | | | | | | | | | 1 | | | | | 3 | | | | | | | |
| | 2 | 2 | | | | | | | | | | . | - | - | _ | 2 | : | 2 | | | | | 2 | | | | | | | |
| | 1 | 1 | | | | | | | | | | | | | | | | 2 | | | | | 2 | | | | | | | |
| CALHOUN COUNTY TOTAL | 10 | 10 | | | | | | | | | | | | | | | | 2 | | | | | 2 | | | | | | | |
| | 1 | 1 | | | | | | | | | | - | - | | - | 13 | - | 18 | - | - | 2 | | 2 | | | | | | | |
| | 6 | 6 | | | | | | | | | | | | | | 13 | | 18 | | | | | 1 | | | | | | | |
| 0-19 EMPLOYEES | 21 | 21 | | | | | | | | | | | | | | 1 | | 3 | | | | | 1 | | | | | | | |
| | 3 | 3 | | - | - | - | - | " | - | - | - | - | | | | | | | | | | | | | | | | | | |
| | 12 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHARLEVOIX COUNTY TOTAL | 6 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEBOYGAN COUNTY TOTAL | 8 | 8 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 6 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHIPPEWA COUNTY TOTAL | 5 | 1 | | | | | | | | | | | | | | | | ~ | ~ | | | | | | | | | | | |
| | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 22 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | 1 | - | - | - | - | 1 |
| | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 TO 99 EMPLOYEES | 29 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 28 | 1 | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| CLARE COUNTY TOTAL | 5 | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| | 1 | 1 | | | | | | | | | | | | | | | | 7 | . | - | 1 | - | 1 | | | | | | | |
| 0-19 EMPLOYEES | 22 | 22 | | | | | | | | | | | | | | 13 | - | 7 | | | | | 1 | | | | | | | |
| CLINTON COUNTY TOTAL | 22 | 2 | 2 | | | | | | | | | | | | | 13 | | 1 | | | | | 1 | | | | | | | |
| | 29 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRAWFORD COUNTY TOTAL | 1 | | | - | - | - | - | - | - | - | - | - | - | - | " | 5 | 1 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 5 | 1 | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | | | | - | - | - | - | - | - | - | - | -. | | | | | | | | | | - | 3 | | | | | | | |
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| 250 EMPLOYEES AND OVER | | | | 2 | 1 | | | | | | | | | | | | | 2 | | | 1 | | 3 | 2 | " | 1 | " | 1 | 1 | 1 |
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| See footnotes at end of table. | | 19<br>1 | 6 | 3 | |